

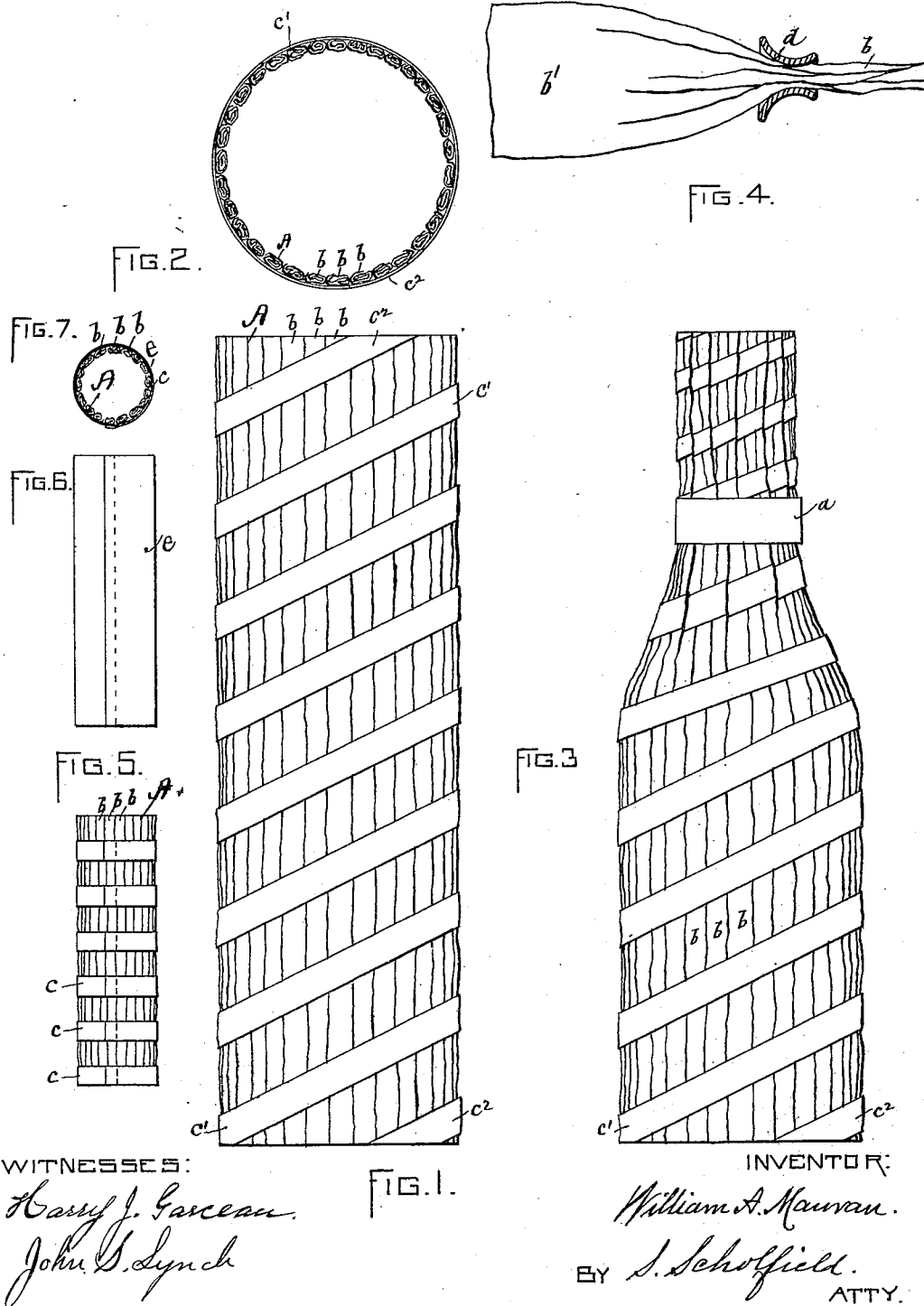
No. 620,850.

Patented Mar. 7, 1899.

W. A. MAURAN.
PROTECTING COVER FOR BOTTLES.

(Application filed Nov. 5, 1898.)

(No Model.)



UNITED STATES PATENT OFFICE.

WILLIAM A. MAURAN, OF PROVIDENCE, RHODE ISLAND.

PROTECTING-COVER FOR BOTTLES.

SPECIFICATION forming part of Letters Patent No. 620,850, dated March 7, 1899.

Application filed November 5, 1898. Serial No. 695,609. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM A. MAURAN, a citizen of the United States, residing at Providence, in the State of Rhode Island, have invented a new and useful Improvement in Protecting-Covers for Bottles, of which the following is a specification.

The nature of my invention consists in an improved tubular protective covering adapted to prevent the breakage of bottles in transportation; and it consists in a series of parallel longitudinally-crumpled strips of paper secured in tubular form by means of an external envelop of paper or other suitable material cemented to the outer surfaces of the crumpled strips, whereby the crumpled strips will be properly held in tubular form and adapted for contraction about the neck of a bottle by means of a band.

In the accompanying drawings, Figure 1 represents a side view of my improved protective covering completed for the market. Fig. 2 represents an end view of the same. Fig. 3 represents the protective covering as applied to a bottle. Fig. 4 illustrates the means employed for crumpling the paper strips of which the protective covering is formed. Figs. 5 and 6 represent modifications, of which Fig. 7 is an end view.

In the drawings, A represents a circularly-arranged series of parallel crumpled strips of paper *b b*, which are held together in tubular form by means of the spirally-wound strips *c' c'*, of paper or other suitable material, pasted or cemented to the outer sides of the crumpled paper strips *b b*. This tubular fabric may be formed by machinery in continuous length and then cut up in proper lengths to

form the required covering for a bottle and may be contracted around the neck of the bottle by means of a suitable band *a*, as shown in Fig. 3. The winding-strips *c' c'* may be made of any desired width, and any desired number of winding-strips may be employed.

In the manufacture of the improved covering for bottles the required strips of paper of the proper width are crumpled laterally by being drawn from the outspread condition *b'* (shown in Fig. 4) through a trumpet-shaped aperture *d*.

The improved bottle-covering thus formed constitutes a desirable article of manufacture which can be furnished at low cost.

Instead of providing the longitudinally-crumpled strips with a cemented spiral envelop the cemented envelop may be made of parallel bands *c*, as shown in Fig. 5, or of a continuous envelop *e*, as shown in Fig. 6, or a cemented winding of twine may be employed.

I claim as my invention—

1. A tubular protective covering for bottles, consisting of a series of parallel longitudinally-crumpled strips of paper, secured in tubular form by means of an external envelop of paper or other suitable material cemented to the outer surfaces of the crumpled strips.

2. A tubular protective covering for bottles having a series of parallel longitudinally-crumpled strips of paper, provided exteriorly with a spirally-wound strip of paper or other suitable material, or twine, cemented to the outer surface of the crumpled strips.

WILLIAM A. MAURAN.

Witnesses:

SOCRATES SCHOLFIELD,
JOHN S. LYNCH.